Name of Work: Modified Estimate For Providing Additional works to Nagenahalli Govt School in chowdeshwari ward no-02 of yelahanka Sub division

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
1	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge. (V-II.No 19.7.3,Page No-163 PWD SR 2021-22)								
		Cum							
	Nagenahalli School								
	Old School		2	8.00	0.30	3.20	15.36		
			2	6.00	0.30	3.20	11.52		
			2	4.00	0.30	3.20	7.68		
			2	2.40	0.30	3.20	4.61		
			2	5.00	0.30	3.20	9.60		
			2	4.30	0.30	3.20	8.26		
							57.02	**867.90**	**49,491.13**
	Approved Rate	**867.90**							
2	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineerin-charge. (V-II.No 19.9.2,Page No-163 PWD SR 2021-22)								
		Cum							
	Nagenahalli School								
	Old School		2	8.00	0.55	0.80	7.04		
			2	6.00	0.55	0.80	5.28		
			2	4.00	0.45	0.80	2.88		
			2	2.40	0.45	0.80	1.73		
			2	5.00	0.55	0.80	4.40		
			2	4.30	0.55	0.80	3.78		
							25.11	**1419.00**	**35,633.93**
	Approved Rate	**1419.00**							
3	Dismantling stone slab flooring laid in cement mortar including tacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge. (V-II.No 19.24,Page No-165 PWD SR 2021-22)								
		Sqm							
	Nagenahalli School								
	Old School		1	8.00	6.00		48.00		
			1	5.00	4.30		21.50		
							69.50	**1529.00**	**106265.50**
	Approved Rate	**1529.00**							
4	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge. (V-II.No 19.3 ,Page No-163 PWD SR 2021-22)								
		Cum							
	Nagenahalli School								
	Old School		1	8.50	6.50	0.15	8.29		
			1	5.50	4.60	0.15	3.80		
							12.08	**2043.80**	**24,694.21**
	Approved Rate	**2043.80**							

	Earth work in surface excavation by **mechanical means** for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work (V-I, P.No-8, I No-1.12)								
		Cum							
	Nagenahalli School								
	Paver Blocks area								
	Part-A		1	7.00	1.41	0.35	3.45		
	Part-B		1	10.50	0.70	0.40	2.94		
	Part-C		1	22.50	12.55	0.35	98.83		
	Part-D		1	24.70	13.00	0.35	112.39		
	Part-E		1	18.70	7.40	0.40	55.35		
	Part-F		1	6.20	2.25	0.40	5.58		
	Deduct Tree		-3	1.40	1.30	0.40	-2.18		
	Deduct Chamber		-1	0.90	0.90	0.40	-0.32		
	For Concrete Area								
	Building Right Side								
			1	5.00	1.80	0.35	3.15		
			1	5.00	2.15	0.35	3.76		
			1	4.20	2.90	0.35	4.26		
	Deduct		-1	0.25	0.25	0.35	-0.02		
	Continue								
			1	5.00	2.35	0.35	4.11		
			1	4.80	3.50	0.35	5.88		
	Deduct manhole		-1	0.60	0.60	0.35	-0.13		
	Deduct Chamber		-3	0.45	0.45	0.35	-0.21		
	Building Back Side								
			1	15.50	1.00	0.35	5.43		
			1	10.80	0.80	0.35	3.02		
	Deduct Columns		-6	0.30	0.12	0.35	-0.08		
							305.22	**71.50**	**21,822.92**
	Approved Rate	**71.50**							
6	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) **Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates** (V-I, P.No-15,I No-2.1.3 of PWD BCSR 2021-22)								
		Cum							
	Nagenahalli School								
	Paver Blocks area								
	Part-A		1	7.00	1.41	0.175	1.73		
	Part-B		1	10.50	0.70	0.175	1.29		
	Part-C		1	22.50	12.55	0.175	49.42		

	Part-D		1	24.70	13.00	0.175	56.19		
	Part-E		1	18.70	7.40	0.175	24.22		
	Part-F		1	6.20	2.25	0.175	2.44		
	Deduct Tree		-3	1.40	1.30	0.175	-0.96		
	Deduct Chamber		-1	0.90	0.90	0.175	-0.14		
	For Concrete Area								
	Building Right Side								
			1	5.00	1.80	0.175	1.58		
			1	5.00	2.15	0.175	1.88		
			1	4.20	2.90	0.175	2.13		
	Deduct		-1	0.25	0.25	0.175	-0.01		
	Continue								
			1	5.00	2.35	0.175	2.06		
			1	4.80	3.50	0.175	2.94		
	Deduct manhole		-1	0.60	0.60	0.175	-0.06		
	Deduct Chamber		-3	0.45	0.45	0.175	-0.11		
	Building Back Side								
			1	15.50	1.00	0.15	2.33		
			1	10.80	0.80	0.15	1.30		
	Deduct Columns		-6	0.30	0.12	0.15	-0.03		
	Steps								
	Thread		1	2.50	0.50	0.15	0.19		
	Rise		1	2.50	0.10	0.15	0.04		
	Ramp								
	Ps No-79		1	2.10	1.10	0.15	0.35		
	Ps No-80		1	2.50	0.50	0.15	0.19		
	Ps No-81		1	2.50	0.50	0.15	0.19		
							149.12	**6109.40**	**911039.68**
	Approved Rate	**6109.40**							
7	Providing and laying in Reinforced cement concrete for all Basement & surface level works, return walls, retaining walls, sunken floors etc. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates** (V-I, P.No-16,I No-2.3.1 of PWD BCSR 2021-22)								
		Cum							
	Nagenahalli School								
	For Concrete Area								
	Building Right Side								
			1	5.00	1.80	0.15	1.35		
			1	5.00	2.15	0.15	1.61		
			1	4.20	2.90	0.15	1.83		
	Deduct		-1	0.25	0.25	0.15	-0.01		
	Continue								

			1	5.00	2.35	0.15	1.76		
			1	4.80	3.50	0.15	2.52		
	Deduct manhole		-1	0.60	0.60	0.15	-0.05		
	Deduct Chamber		-3	0.45	0.45	0.15	-0.09		
	Building Back Side								
			1	15.50	1.00	0.15	2.33		
			1	10.80	0.80	0.15	1.30		
	Deduct Columns		-6	0.30	0.12	0.15	-0.03		
	Steps								
	Thread		1	2.50	0.50	0.15	0.19		
	Rise		1	2.50	0.10	0.15	0.04		
	Ramp								
	Ps No-79		1	2.10	1.10	0.15	0.35		
	Ps No-80		1	2.50	0.50	0.15	0.19		
	Ps No-81		1	2.50	0.50	0.15	0.19		
							13.45	**6564.80**	**88,313.63**
	Approved Rate	**6564.80**							
8	Providing and laying **heavy duty cobble stones 60mm thick** interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery complete as per specifications. (V-II, P.No-64,I No-9.31 of PWD BCSR 2021-22)								
		Sqm							
	Nagenahalli School								
	Paver Blocks area								
	Part-A		1	7.00	1.41		9.87		
	Part-B		1	10.50	0.70		7.35		
	Part-C		1	22.50	12.55		282.38		
	Part-D		1	24.70	13.00		321.10		
	Part-E		1	18.70	7.40		138.38		
	Part-F		1	6.20	2.25		13.95		
	Deduct Tree		-3	1.40	1.30		-5.46		
	Deduct Chamber		-1	0.90	0.90		-0.81		
							766.76	**1195.70**	**916808.95**
	Approved Rate	**1195.70**							
9	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete as directed by the Engineer in Charge of the work (Approved Rate)								
		Nos							
	Nagenahalli School								
	Open space		1	31.00			31.00		
			1	10.40			10.40		
			1	19.30			19.30		
							60.70		
							135.00	**507.00**	**68,445.00**
	Approved Rate	507.00							

	Painting **two coats after filling the surface with synthetic enamel paint** in all shades on new plastered concrete surfaces (V-III, P.No-64,I No-8.10 of PWD BCSR 2021-22)								
		Sqm							
	Nagenahalli School								
	Open space		1	31.00		0.35	10.85		
			1	10.40		0.35	3.64		
			1	19.30		0.35	6.76		
							21.25	**93.50**	**1,986.41**
	Approved Rate	**93.50**							
11	**Providing and laying Polished Granite stone flooring** in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. ** Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent. (V-II, P.No-63,I No-9.24 of PWD BCSR 2021-22)								
		Sqm							
	Nagenahalli School								
	Steps Granite	**Thread**	24	1.45		0.30	10.44		
		Rise	24	1.45		0.125	4.35		
	Landing		2	1.00		3.00	6.00		
	Skirting		24	0.30		0.10	0.72		
			24	0.125		0.10	0.30		
							21.81	**3157.00**	**68,854.17**
	Approved Rate	**3157.00**							
12	**Providing and fixing hand rail** of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. M.S. tube including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineerin- Charge. (V-II, P.No-82,I No-11.26.1 of PWD BCSR 2021-22)								
		Kgs							
	Nagenahalli School								
	Steps railings		4	4.00		1.05	16.80		
	Over Existing compound		1	127.07		0.45	57.18		
	1st Floor		1	29.90		1.70	50.83		
							124.81		
	53kg/sqm						6615.01		
							6615.01	**122.10**	**807692.66**
		122.10							
13	Providing and constructing load bearing wall with **Solid Concrete blocks** of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (V-II, P.No-17,I No-6.33 of PWD BCSR 2021-22)								
		Sqm							
	Nagenahalli School								
	Head room		2	5.10		3.00	30.60		
			2	3.00		3.00	18.00		

	Deduct Door		-1	1.15		2.70	-3.11		
							45.50	**1167.10**	**53,097.21**
	Approved Rate	**1167.10**							
	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (V-II, P.No-41,I No-8.3.1 of PWD BCSR 2021-22)								
		Sqm							
	Nagenahalli School								
	Head room		4	5.10		3.00	61.20		
			4	3.00		3.00	36.00		
	Deduct Door		-2	1.15		2.70	-6.21		
							90.99	**328.90**	**29,926.61**
	Approved Rate	**328.90**							
15	Finishing walls with **water proofing cement paint of required shade** :New work (Two coats applied @ 4.84 kg/10 m^2) to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (V-II, P.No-45,I No-8.28 of PWD BCSR 2021-22)								
		Sqm							
	Nagenahalli School								
	Head room		4	5.10		3.00	61.20		
			4	3.00		3.00	36.00		
	Deduct Door		-2	1.15		2.70	-6.21		
							90.99	**72.60**	**6,605.87**
	Approved Rate	**72.60**							
16	Providing & fixing corrugated **G.S. sheet roofing** including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete as per design drawings (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required as per the direction of Engineer in charge. 0.63 mm thick with zinc coating not less than 275 g/ m^2. (V-II,								
		Sqm							
	Nagenahalli School								
	Head room		1	5.30		3.20	16.96		
							16.96	**874.50**	**14,831.52**
	Approved Rate	**874.50**							
17	**Providing and fixing Steel work in built up tubular** (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished seamless type tubes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.. (V-II, P.No-21,I No-11.16.2 of PWD BCSR 2021-22)								
		Kg							
	Nagenahalli School					kg/m			
	Head room support		3	3.30		5.42	53.66		
							53.66	**149.60**	**8,027.24**
	Approved Rate	**149.60**							

	Providing and fixing 1mm thick **M.S. sheet door** with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angels 40x40x6 mm for diagonal braces including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.. (V-II, P.No-75,I No-11.5.1 of PWD BCSR 2021-22)								
		Sqm				kg/m			
	Nagenahalli School								
	Head room door		1	1.05		2.70	2.84		
							2.84	**4026.00**	**11,413.71**
	Approved Rate	**4026.00**							
19	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (V-II, P.No-17,I No-6.32 of PWD BCSR 2021-22)								
		Sqm							
	Nagenahalli School								
	Flag Post platform						**0.00**	**1315.60**	**0.00**
	Approved Rate	**1315.60**							
20	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 500x500 mm (V-II, P.No-61,I No-9.17.1 of PWD BCSR 2021-22)								
		Sqm							
	Nagenahalli School								
	Flag Post platform						**0.00**	**1129.70**	**0.00**
	Approved Rate	**1129.70**							
21	Providing and fixing Structural Steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (V-II, P.No-75,I No-11.2 of PWD BCSR 2021-22) 65mm dia, 6.61kg/m								
		Kg							
	Nagenahalli School								
							0.00	**114.40**	**0.00**
	Approved Rate	**114.40**							
22	Providing, supplying to work site,Single Phase Submersible Pump Sets of 100mm dia (4 inch) suitable for well confirming to IS 8034-2000 specifications,with testing of as per instructions of engineer incharge of work and latest amendments. (V-V, P.No-158,I No-7.1 of BWSSB BCSR 2021-22) 1.50 HP/1.1KW 7 STG								
		Each							
	Nagenahalli School								
			1				1.00		
							1.00	**15785.00**	**15,785.00**

	Approved Rate	**15785.00**							
	Cost of Haulage Excluding Loading and Unloading Taking output 25 t load and lead 10 km = 250 t.km (V-III Page No.3, Item No.1.4C of PWD SR 2021-22)								
	Qty frm Item No-1		57.02	2.00			114.05		
	Qty frm Item No-2		25.11	2.00			50.22		
	Qty frm Item No-4		12.08	2.00			24.17		
	Qty frm Item No-5		305.22	1.28			390.68		
		t.km					**579.11**	**44.00**	**25,480.97**
	Approved Rate	**44.00**							
24	Green board (8ftx4ft) with wooden beading. Complete as per the specifications and directions of the Engineer in charge.								
	Approved Rate	**13440.00**							
		Each							
	Nagenahalli School						7.00		
			7				**7.00**	**13440.00**	**94,080.00**
								Total Construction Cost	**3360296.33**
								Towards GST 18%	**587918.94**
								Sub Total	**3948215.27**

Assistant Engineer
Ward No-02
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Sub Division
Yelahanka Sub. Divisor
BBMP Bangalore
(BBMP Ylk. Zn)
Yelahanka, Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

Technical Sanction
Accorded For Rs.39,48,215.27
Head of A/C. P3726
CER NO :28 Dt:21.09.23

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